PATENT COOPERATION TREATY

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

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PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

IMPORTANT NOTIFICATION

Date of Mailing (day/month/year)

19 NOV 1997

Applicant's or agent's file reference 423900.P2692

International application No.

International filing date (day/month/year)

Priority Date (day/month/year)

PCT/US96/20573

17 DECEMBER 1996

19 DECEMBER 1995

Applicant

INTEL CORPORATION

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

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Name and mailing address of the IPEA/US

Commissioner of Patents and Trademarks

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PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 423900.P2692 FOR FURTHER ACTION See Notification of Preliminary Examination						
International filing date (day/n	nonth/year)	Priority date (day/month/year)				
17 DECEMBER 1996		19 DECEMBER 1995				
International Patent Classification (IPC) or national classification and IPC Please See Supplemental Sheet.						
Applicant INTEL CORPORATION						
try examination report has transmitted to the applicant at total of sheets.	been prepar	red by this International Preliminary Article 36.				
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority. (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
These annexes consist of a total of sheets.						
s relating to the following it	ems:					
t						
I Basis of the report						
II Priority						
t of report with regard to no	velty, invent	ive step or industrial applicability				
invention						
V X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
VI Certain documents cited						
VII Certain defects in the international application						
VIII Certain observations on the international application						
Date of submission of the demand Date of completion of this report						
Date	of complexion	of this report				
Oc	OCTOBER	1997				
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/US96/20573

L.	Basi	s of	the report	
	This re	port he	s been drawn on the	basis of (Substitute sheets which have been furnished to the receiving Office in response to an invitation
	under 1	Article	14 are referred to in	this report as "originally filed" and are not arrected to the report since they do not contain amendments):
		X	the internationa	l application as originally filed.
		X	the description,	pages 1-130 , as originally filed.
				pages NONE , filed with the demand.
				pages NONE , filed with the letter of
				pages, filed with the letter of
		x	the claims,	Nos. 1-35 , as originally filed.
	,			Nos. NONE , as amended under Article 19.
				Nos. NONE , filed with the demand.
				Nos. NONE , filed with the letter of
				Nos, filed with the letter of
		x	the drawings,	sheets/fig 1-20 , as originally filed.
	ļ	بث		sheets/fig NONE , filed with the demand.
				sheets/fig NONE , filed with the letter of
				sheets/fig, filed with the letter of
3.		X X This to go	the description, the claims, the drawings, report has been es	Nos. NONE sheets/fig NONE tablished as if (some of) the amendments had not been made, since they have been considered sure as filed, as indicated in the Supplemental Box Additional observations below (Rule 70.2(c)).

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US96/20573

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1.	STATEMENT			
	Novelty (N)	Claims	1-35	YES
		Claims	NONE	NO
	Inventive Step (IS)	Claims	1-35	YES
		Claims	NONE	NO
	Industrial Applicability (IA)	Claims	1-35	VEG
	Industrial Applicability (IA)		 	YES
		Claims	NONE	NO

2. CITATIONS AND EXPLANATIONS

Claims 1-35 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest:

a single logical register file that is operated as a flat register file when executing a first instruction of a first instruction type and a operates as a stack register file when executing a first instruction of a second instruction type as claimed by independent claim 1;

executing a set of floating point instructions and a set of packed data instruction on a partially aliased single logical file as claimed by independent claim 17;

implementing partial context switching when executing scalar and packed data instruction as claimed by independent claims 21 and 32; and

writing a packed data item in mantissa field and writing a infinity in a sign and exponent field of a single logical register file as claimed by independent claim 35.

Dependent claims 2-16, 18-20, 22-31, and 33-34 meet the criteria set out in PCT Article 33 (2)-(3), because of dependency on independent claims 1, 17, 21, 32, and 35 respectively.

Upon reconsideration of claimed invention in light of the specification, Rosenthal fails to teach or suggest the inventive steps of claims 21-31. Rosenthal's invention is directed to a system for selecting devices in a multi-processing system and is not directed to the method steps recited in the claims 21-31, supra.

Upon reconsideration of claimed invention in light of the specification, Margulis fails to teach or suggest the inventive steps of claims 32-34. Margulis's invention is directed to a floating point unit of a i860 processor and is not directed to the method steps recited in the claims 32-34, supra.

The combination of Garg and Margulis does not teach or suggest the method steps recited in the claims 17-20 and 35.

Claims 1-35 have industrial applicability under PCT Article 33(4) because the subject matter claimed can be made or used in industry.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US96/20573

Supplemental-Box	
Supplemental Dox	
(To be used when the space in any of the preceding boxe	es is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

CLASSIFICATION	CL.	ASS	IFI	CA	П	O	N	:
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The International Patent Classification (IPC) and/or the National classification are as listed below: IPC(6): G06F 9/34, 9/46, 9/00, 9/302 and US Cl.: 395/392, 395/393, 395/569, 395/570, 395/591, 395/678